OSA -0161-66

30 December 1965

Subject: ECP GR-44, CONTRACT LP-2264 AND CW-6644

Dear Chuck,

This ECP has been technically approved by the SPO. Request you provide [redacted] with formal approval to proceed. STATINTL

STATINTL [redacted] has advised us that retrofit phasing will not be critical since modified Antenna Control Units are fully interchangeable with un modified [redacted] Control Panels and STATINTL vice versa. Further unmodified Antenna Control Units can be fully tested by modified Antenna Control Testers using a revised STATINTL procedure which [redacted] will supply with their FSB, if not before.

The cost of this change for the eight prototype units is approximately $370.

STATINTL

Regards,

[redacted]

Colonel, USAF
Deputy Director, F-12 SPO
Deputy for Systems Management

Atch.

STATINTL cc: [redacted]

GA - 531	ENGINEERING STUDY ☐ CHANGE PROPOSAL ☒	GR - 44
DATE 12-14-65	AFFECTS: GA 531A SLR	

NAME OF MAJOR COMPONENT	PART OR LOWEST SUBASSEMBLY	PART NO. MODEL OR TYPE
1. Antenna Control Assy 2. SLR Control Panel 3. Ant/Aat Control LRU Tester	1. Gyro Control Ampli PC Board 2. Diode Board No. 1	See page 2.

TITLE OF PROPOSAL:
Antenna Control Unit and SLR Control Panel Modification

NATURE OF PROPOSAL:
The following changes are initiated by the contractor:

1. Antenna Control Assembly, P/N 531A200-001-101 changes.

   A. Change P/N 531A206-005-101, Gyro Control Ampli PC Board to P/N 531A206-005-105 after the following changes have been made:

      1. Change resistor R1 from RC20GF101J to RC20GF334J.

      2. Change resistor R3 from RC20GF514J to RC20GF224J.

(CONT on pages 2 & 3) (REF: REW KP-I-220)

REASON FOR PROPOSAL:
Item 1.A.3, 1.B.1 and 1.B.2 — To increase antenna beam steer rate.
Item 1.A.4 — To increase ECO sensitivity.
Items 1.A.7, 1.A.1, 1.A.2, 1.A.5 and 1.A.6 — Provide a 10-second delay in entering turn mode.
Items 1.B.3 thru 1.B.6 — To increase receiver BIT gain.
Items 2.A.1 and 3.A — To increase antenna beam steer (earth rate).
Item 1.C.1 and 1.C.2 — To reduce noise on monitor outputs to the multiplex systems.

ES	ESTIMATED COST AND TIME INVOLVED: ADDITIONAL FUNDING REQUIRED: $6,325 (includes $3,295.48 Eng.)
CP	ESTIMATED COST FOR KITS OR PARTS: ADDITIONAL FUNDING REQUIRED:

ITEMS AFFECTED BY PROPOSAL:
See page 3.

SAFETY	MISSION EFFECTIVENESS	PERFORMANCE	OPERATING PROCEDURE	INTERCHANGEABILITY	WEIGHT OR WEIGHT AND BALANCE	TOOLS AND SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL
☐	☒	☒	☒	☐	☐	☒	☒	☐	☐	☒

ESTIMATED MAN HOURS REQUIRED TO ACCOMPLISH CHANGE IN FIELD:
See page 3.

SOURCE OF PARTS FOR KIT:
GR

AVAILABILITY 6 WEEKS AFTER APPROVAL

DISPOSITION OF SPARES AFFECTED:
Spares to be reworked.
PPB to be changed by change notice to PSC

STATINTL

Nature of Proposal (CONT):

3. Change resistor R4 from RN 70C3491F to RC42GF681J.
4. Change resistor R5 from RW67CF201J to RC42GF152J.
5. Change capacitor C2 from CL65L330MPS to CL65CK680MP3.
6. Add 1N647 Diode.
7. Revise transistor Q3 base circuitry.

B. Antenna Control Unit Wiring Harness

1. Add wire from 2K11-C2 to 2K2-X2.
2. Add wire from 2K11-C3 to 2K8-A1.
3. Add wire from 2K14-A1 to 2K15-B2.
4. Add wire from 2K15-B2 to 2K7-C2.
5. Add wire from 2K15-B1 to 2K7-C1.
6. Add wire from 2K7-C1 to 2K18-X1.

C. Additional Change to Antenna Control Unit Wiring Harness

1. Disconnect wire 2W514 from 2T2-2 and connect it to 2T2-7.
2. Disconnect wire 2W513 from 2J7-T and connect it to 2T2-2.

D. A Mod number will be assigned to the P/N 531A200-100-101, Antenna Control Panel Assembly

2. SLR Control Panel, P/N 531A610-009-101 Changes.

A. Change P/N 531A610-009-101, Diode Board No. 1 to P/N 531A610-009-103 after the following changes have been made:

1. Change resistor R1 from RB54CE19701B to RC20GF563J.

B. A Mod number will be assigned to the P/N 531A610-009-101, Control Panel.

3. Antenna/Antenna Control Tester (LRT), P/N 531A910-001-101 Changes

A. Change resistor R43 in Nav Simulator panel from RB54CE19701B to RC20GF563J.

Items Affected by Proposal (CONT):

1. Production Effectivity
   A. Antenna Control Assembly
      1. Production units S/N A200-9 thru S/N A200-19 will be retrofitted.
      2. Production units S/N A200-20 and subs in line.
   B. SLR Control Panel
      1. Production units S/N A602-9 thru S/N A602-19 will be retrofitted.
      2. Production units S/N A602-20 and subs in line.
   C. Antenna/Antenna Control Tester (LRU)
      1. Production units S/N -3 thru -6.

Estimated Man Hours to Accomplish Change in Field (CONT):

A. Antenna Control Unit

1.	Disassemble unit	1 hr
2.	Modification	7 hr
3.	Reassemble unit	1 hr
4.	Test	1 hr

B. Control Panel Unit

1.	Disassemble	30 min
2.	Modification	30 min
3.	Reassemble	30 min
4.	Test	1 hr

C. Antenna/Antenna Control LRU Tester

1.	Disassemble	20 min
2.	Modification	20 min
3.	Reassemble	20 min
4.	Test	1 hr